

FORM PTO - 1449

U.S. DEPARTMENT OF  
PATENT AND TRADEMARK OFFICE

Sheet 1 of 7

ATTY. DOCKET NO.

14530

JOURNAL NO.

09/420,997

## LIST OF ART CITED BY APPLICANT

APPLICANT

RICHARD K. WAMPLER

FILING DATE

10-20-99

GROUP

## U.S. PATENT DOCUMENTS

* EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>RL</i>	AA	2,725,266	11/55	Mendelsohn			
	AB	3,487,784	1/70	Rafferty et al.			
	AC	3,493,274	2/70	Emslie et al.			
	AD	3,957,389	5/76	Rafferty et al.			
	AE	4,057,369	11/77	Isenberg et al.			
	AF	4,072,370	2/78	Wasson			
	AG	4,135,253	1/79	Reich et al.			
	AH	4,253,798	3/81	Sugiura			
	AI	4,382,245	5/83	Harrigan			
	AJ	4,507,048	3/85	Belenger et al.			
<i>✓</i>	AK	4,625,712	12/86	Wampler			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>—</i>	AQ	Tamaka et al., "A New Seal-Less Centrifugal Blood Pump", Japan Journal of Artificial Organs, 14 (3), pp. 1126-1129, (1985)
<i>—</i>	AR	Nishida et al., "Development of the Terumo Capiox Centrifugal Pump and Its Clinical Application to Open Heart Surgery: A Comparative Study with the Roller Pump", pp. 24-28, (1992)
<i>✓</i>	AS	Kijima et al., "A Straight Path Centrifugal Blood Pump Concept in the Capiox Centrifugal Pump", pp. 32-37, (1993)

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6/22/00

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Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your next communication to applicant.

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LIST OF ART CITED BY APPLICANT		APPLICANT Richard K. Wampler	
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## U.S. PATENT DOCUMENTS

* EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Q-L	AA	4,688,998	8/87	Olsen et al.			
	AB	4,704,121	11/87	Moise			
	AC	4,745,345	5/88	Petersen			
	AD	4,763,032	8/88	Bramm et al.			
	AE	4,779,614	10/88	Moise			
	AF	4,789,251	12/88	McPherson et al.			
	AG	4,806,080	2/89	Mizobuchi et al.			
	AH	4,846,152	7/89	Wampler et al.			
	AI	4,908,012	3/90	Moise et al.			
	AJ	4,994,078	2/91	Jarvik			
	AK	5,017,103	5/91	Dahl			

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	Yamane et al. "Fundamental Characteristics of Magnetically Suspended Centrifugal Blood Pump". pp. 130-131 (1994)
	AR	Kijima et al., "The Margin of Safety in the Use of a Straight Path Centrifugal Blood Pump", <i>Artificial Organs</i> , 18(9), pp. 680-686, (1994)
	AS	"Implantable Artificial Cardiac Blood Pump Prototype Developed", <i>Medical Equipment Journal of Japan</i> , (May 1994)

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* EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Q.R.	AA	5,049,134	9/91	Golding et al.			
	AB	5,055,005	10/91	Kletschka			
	AC	5,078,741	1/92	Bramm et al.			
	AD	5,106,263	4/92	Irie			
	AE	5,112,202	5/92	Oshima et al.			
	AF	5,149,253	9/92	Miyamoto et al.			
	AG	5,160,246	11/92	Horjuchi			
	AH	5,182,533	1/93	Ritts			
	AI	5,195,877	3/93	Kletschka			
	AJ	5,201,642	4/93	Hinckley			
✓	AK	5,211,546	5/93	Isaacson et al.			

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

—	AQ	Yamane et al., "Design of a Centrifugal Blood Pump with Magnetic Suspension", 1 page. Abstract, (September 1994)
—	AR	Yamane et al., "Design of a Centrifugal Blood Pump with Magnetic Suspension", <i>Artificial Organs</i> , 19(7) pp. 625-630, (1995)
—	AS	Akamatsu et al., "Recent Studies of the Centrifugal Blood Pump with a Magnetically Suspended Impeller", <i>Artificial Organs</i> , 19(7), pp. 631-634, (1995)

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* EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
OR	AA	5,290,236	3/94	Mathewson			
	AB	5,302,091	4/94	Horiuchi			
	AC	5,316,440	5/94	Kijima et al.			
	AD	5,342,825	8/94	Iannello et al.			
	AE	5,385,581	1/95	Bramm et al.			
	AF	5,399,074	3/95	Nose et al.			
	AG	5,441,535	8/95	Takahashi et al.			
	AH	5,443,503	8/95	Yamane			
	AI	5,470,208	11/95	Kletschka			
	AJ	5,507,629	4/96	Jarvik			
	AK	5,527,159	6/96	Bozeman, Jr. et al.			

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	AQ	Yamane "Performance Improvements of a Centrifugal Blood Pump with Mono-Pivot Magnetic-Suspension", pp. 538-539, (1996)
	AR	Kim et al., "In Vitro Characterization of a Magnetically Suspended Continuous Flow Ventricular Assist Device," 4535 ASAIO Journal, 41 (1995) July/Sept. No. 3
	AS	C. Peter Cho et al.; Eddy Current Loss Calculation in the Permanent Magnet of a Large Horse Power Axial-Field Motor; June 14, 1994; Proceedings, Twenty-third Annual Symposium, Incremental Motion Control Systems & Devices, pp. 245-253.

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## U.S. PATENT DOCUMENTS

* EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>OR</i>	AA	5,575,630	11/96	Nakazawa et al.	1	1	
<i>L</i>	AB	5,613,935	3/97	Jarvik	1	1	
<i>L</i>	AC	5,746,575	05/98	Westphal et al.	1	1	
	AD						
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<del>AQ</del>	C. Peter Cho et al.; Cogging Torque Reduction, Axial Force Variation, and Output Torque Effect of a High-Power Density, Axial Field, Brushless, Permanent Magnet Motor; June 6, 1995; Proceedings, Twenty-fourth Annual Symposium, Incremental Motion Control Systems & Devices, pp. 297-307.
<del>AR</del>	C. Peter Cho et al.; Feasibility Study of a Novel Integrated Electric Motor/Pump for Underwater Applications; June 6, 1995; Proceedings, Twenty-fourth Annual Symposium, Incremental Motion Control Systems & Devices, pp. 309-316.
<del>AS</del>	C. Peter Cho et al.; Ongoing Feasibility Study of a Novel Integrated Electric Motor/Pump Concept; June 11, 1996; Proceedings, Twenty-fifth Annual Symposium, Incremental Motion Control Systems & Devices, pp. 51-62.

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<i>Q.R.</i>	AA	4,944,748	07/31/90	Bramm et al.			
	AB	4,957,504	09/18/90	Chardack			
	AC	4,976,729	12/11/90	Holfert et al.			
	AD	4,994,017	02/19/91	Yozu			
	AE	5,092,879	03/03/92	Jarvik			
	AF	5,112,200	05/12/92	Isaacson et al.			
	AG	5,147,388	09/15/92	Yamazaki			
	AH	5,282,849	02/01/94	Kolff et al.			
	AI	5,306,295	04/26/94	Kolff et al.			
	AJ	5,324,177	06/28/94	Golding et al.			
<i>✓</i>	AK	5,370,509	12/06/94	Golding et al.			

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<i>Q.R.</i>	AQ	C. Peter Cho et al.; Energy Losses in Magnetic Lamination Materials of a Novel Integrated Motor/Pump System; July 22, 1997; Proceedings, Twenty-sixth Annual Symposium, Incremental Motion Control System & Devices, pp. 325-333.
	AR	
	AS	
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<i>Q.R.</i>		6/22/00
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<i>QX</i>	AA	5,392,881	02/28/95	Cho et al.			
	AB	5,397,349	03/14/95	Kolff et al.			
	AC	5,397,953	03/14/95	Cho			
	AD	5,569,111	10/29/96	Cho et al.			
	AE	5,588,812	12/31/96	Taylor et al.			
	AF	5,601,418	2/11/97	Ohara et al.			
	AG	5,607,329	03/04/97	Cho et al.			
	AH	5,613,935	03/25/97	Jarvik			
	AI	5,649,811	07/22/97	Krol, Jr. et al.			
	AJ	5,695,471	12/09/97	Wampler			

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